

# Bolingbrook

## a place to grow

### Street Standards

#### General Specifications

It is intended that all streets shall be constructed in accordance with the most recently adopted edition of the I.D.O.T. "Standards for Specifications for Road & Bridge Construction." In particular, temperature restrictions and the use of superspace standards, for paving shall conform to this article.

It shall be the contractor's responsibility to provide barbecuing, warning devices and safe management of traffic within the area of construction. All such devices and their installation shall conform to the "Illinois Manual of Uniform Traffic Control Devices for Streets and Highways," latest edition and in accordance with the "Village of Bolingbrook Development Code."

All streets are to be kept clean and free of construction debris and mud at all times and, if necessary, will be swept away.

The full width of public right-of-way shall be graded, including the subgrade of the areas to be paved. All stumps, trees that can not be saved, boulders and similar items shall be removed.

#### Subgrade & Base Materials

Prior to the construction of the curb & gutter and placement of the base material, the streets shall be fine graded to within one tenth foot ( $\frac{1}{10}$ ) of the final subgrade elevation, to a point two feet (2') beyond the back of the curb.

Streets shall be constructed on a subgrade material having an Illinois Bearing Ratio (IBR) of not less than 4. If a lesser subgrade material exists, it shall be removed and replaced with suitable material or treated in a manner as specified by a competent soils engineer who will be retained by the Village of Bolingbrook, but whose fee will be paid by the applicant.

**Final Pavement & Final Grades**  
The pavement materials shall be as detailed on the engineering plans. Thickness specified shall be considered to be considered to be the minimum compacted thickness.

Striping will be thermoplastic or a high quality yellow or white paint. The Village Engineer will make the decision which will be used.

#### Combination Curb & Gutter (39-408-C)

**General Specifications**  
Curb & gutters shall be constructed along the outside pavement lines of all streets. A three (3") inch stone bedding (CA-6) is required under all curbs.

Concrete curb & gutter shall be reinforced with two (2) #5 rebars.

The minimum thickness of the gutter flag for all curb & gutter types shall be 8".

#### Expansion Joints

Expansion joints for combination curb & gutters shall be three fourths (3/4") inches thick impregnated asphalt and shall extend the entire depth of the curb & gutter. The expansion joints shall be placed at fifty (50) foot intervals for hand pours and at one hundred (100') foot intervals for slip or monolithic pours. There shall also expansion joints at the P.C. & P.T. of any curb curvature and five (5') feet from each side of all in-curb inlets or catch basins. Each expansion joint shall have two (2) one (1") inch dowel bars approximately eighteen (18") inches long and properly grouted.

#### Construction Joints

Construction joints for combination curb & gutters shall be formed by steel templates or by sawcutting. The construction joints shall be formed, or cut, at twelve and one half (12 1/2") foot intervals, to a thickness one eighth (1/8") inch, and at a length equal to the width of the curb & gutter and to a depth of two (2") inches below the surface. If the joints are formed with steel templates, the templates shall be left in place until the concrete has sufficiently set in place to hold it shape, but shall be removed while the forms are still in place. If the joints are sawn, the joints shall be cut within twenty-four (24) hours of the pour. All construction joints shall be filled with I.D.O.T. approved sealant.

#### Curing Compound

When the ambient temperature is forty (40°) degrees and on the rise, all concrete curb & gutter shall be protected with curing compound on all exposed surfaces. If forms are used in construction, curing compound shall be applied on the sides of the curb & gutter immediately following removal of the forms. The compound shall be an ASTM 309-89, Type I, translucent membrane-forming, curing compound with a fugitive dye. When the ambient temperature is forty (40°) degrees and on the decrease, the concrete curb & gutter shall be protected with an insulating cover that adequately prevents hydration heat loss and water loss, in lieu of curing compound.

#### Sidewalks (30-414)

##### Material & Construction

Sidewalks shall be constructed of Portland Cement (class SI) to a thickness of five (5") inches. Concrete for such sidewalks shall have a minimum twenty-eight (28) day compressive strength of four thousand (4000 lbs) pounds, and shall contain not less than three (3%) percent or more than six (6%) percent entrained air. Stump shall not be less than two (2") inches and not more than four (4") inches. Three (3), five-eighths (5/8") reinforcing rods, ten (10') feet in length shall be placed in all crossovers. All concrete walks shall have a curb ring finish prior to applying a thin finish and shall be true to grade as approved by the Village Engineer. Metal with six (6") inch spacing will be required at all driveway locations. The sub-base should consist of I.D.O.T. specified CA-7 material, which has been mechanically compacted.

##### Curing Compound

When the ambient temperature is forty (40°) degrees and on the rise, all concrete curb & gutter shall be protected with curing compound on all exposed surfaces. If forms are used in construction, curing compound shall be applied on the sides of the curb & gutter immediately following removal of the forms. The compound shall be an ASTM 309-89, Type I, translucent membrane-forming, curing compound with a fugitive dye. When the ambient temperature is forty (40°) degrees and on the decrease, the concrete curb & gutter shall be protected with an insulating cover that adequately prevents hydration heat loss and water loss, in lieu of curing compound.

##### Expansion & Construction Joints

Expansion joints three (3") inch thick and full depth of the walk shall be placed at one hundred (100') foot intervals. Material shall be asphalt impregnated joint material manufactured for that use. Construction joints shall be placed at intervals equal to the width of the concrete walk.

All sidewalks will be backfilled within a tree (3) day time period following pouring.

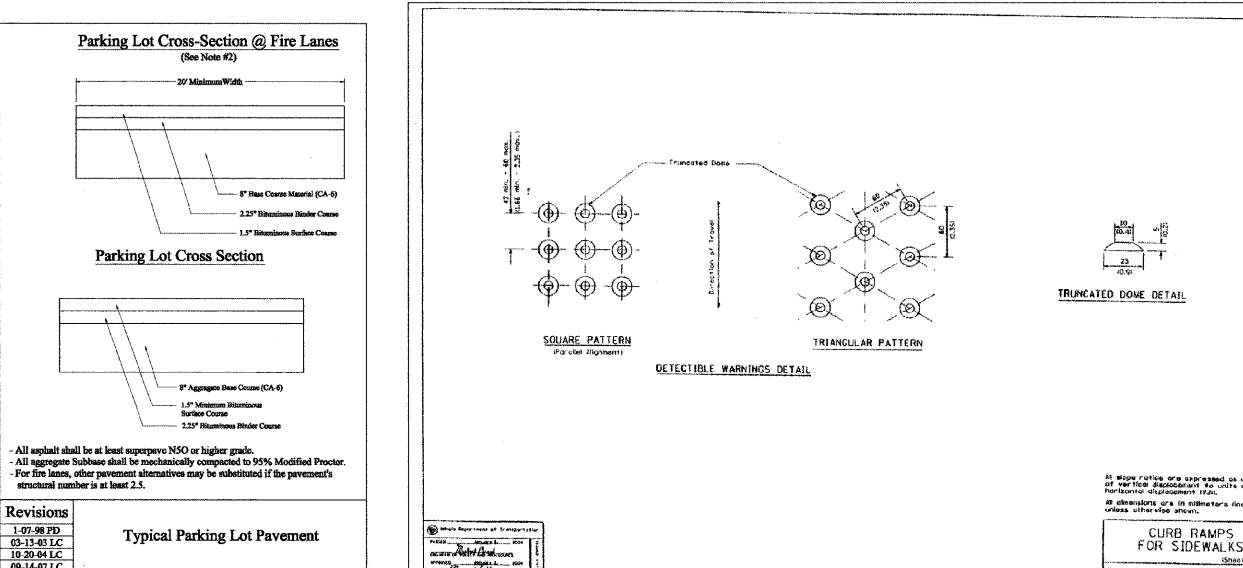
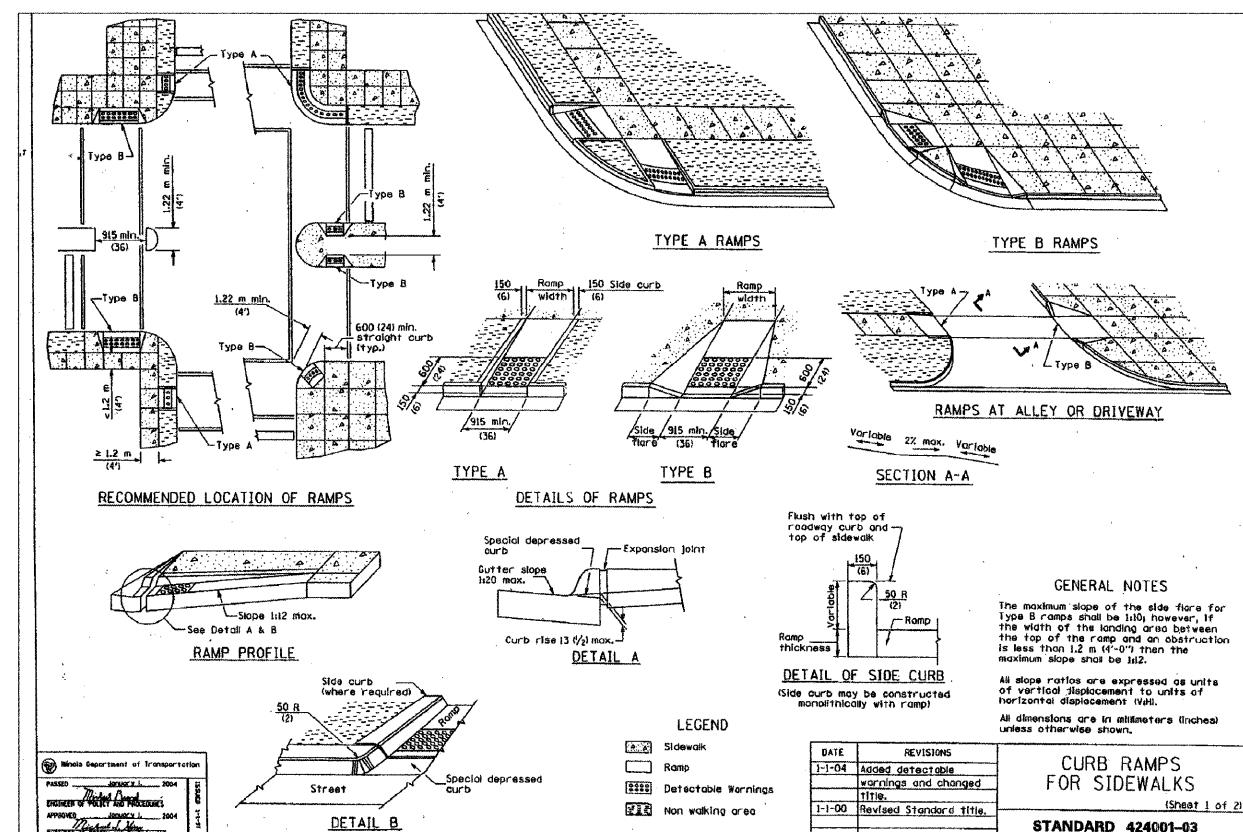
##### Curb Ramps for Sidewalks (ISP-04-30)

This work shall consist of construction sidewalk curb ramps with detectable warnings in compliance with the Americans with Disabilities Act, Accessibility Guidelines (ADAAG). Work shall be according to Section 424 of the Standard Specifications except as modified herein.

The detectable warnings shall consist of an area of truncated domes that provide both visual and tactile cues to pedestrians who are about to enter into traffic. The warning area shall begin 6' from the back of the curb and continue 2 ft. in the direction of pedestrains for the entire width of the walking surface.

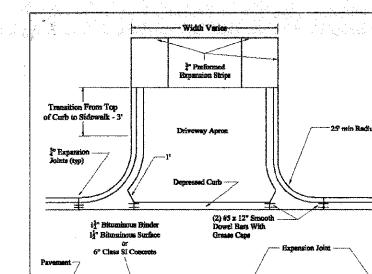
The detectable warnings shall also present a contrast in color from the adjacent sidewalk. This shall be accomplished by constructing the warning area, plus the 6' in. area between the warning area and the back of the curb, out of concrete that is integrally colored red. However if the sidewalk is brick or of the same dark color, the contrast requirement shall be achieved with normal (gray), Class SI concrete.

The concrete shall be placed and finished according to Article 424.06 except the area to be stamped shall not be brushed. When the bleed water has been absorbed, stamping shall begin. The entire width of the curb ramp shall be stamped at the same time. A single stamp or a combination of stamps may be used. The base elevation of the domes shall be even with the adjacent sidewalk surface; the stamp shall not be forced down into the concrete. Upon completion of curing, or after cold weather protection if required, the protruding mortar tip on the top of each dome shall be removed and the dome rubbed or ground smooth.

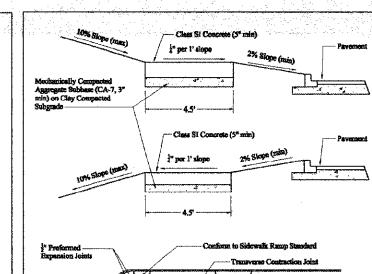


# Pavement Standards

## Sheet 3



Revisions	Typical Commercial Driveway
1-06-98 PD 10-20-04 LC	



Revisions	Sidewalk Section & Layout
1-06-98 PD 10-20-04 LC	

Revisions	Major Arterial
1-06-98 PD 10-20-04 LC	

Revisions	Collector
1-06-98 PD 10-20-04 LC	

Revisions	Typical Flexible Pavement #1
1-06-98 PD 03-13-03 LC 10-20-04 LC	

Revisions	Typical Flexible Pavement #2
1-06-98 PD 03-13-03 LC 03-07-06 LC	

FILE NAME = \$FILE#	USER NAME = \$USER#	DESIGNED - WTS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOLINGBROOK CONSTRUCTION STANDARDS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DRAWN - DLB	REVISED -	REMINGTON BLVD & SCHMIDT ROAD			09-00052-00-TL	WILL	10	10					
PLOT SCALE = \$SCALE#	CHECKED - DJ	REVISED -	SHEET NO. 10 OF 10 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT							
PLOT DATE = \$DATE#	DATE - 8/09	REVISED -											